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6. [47/83] If the file **foo** in the current directory contains just the line **dbd**, what is

PF	RINT Name:	the output of the following command: grep '[b1]\$' foo
Те	est Version: One-Answer Multiple Choice 50 Questions – 10 of 1	10% a. dbd b. foo c. no output d. an error message e. 123
& & &	Read <b>all</b> the words of these instructions and <b>both</b> sides (back and front) of all pages. Use your full, unabbreviated name on the mark-sense form. Do not abbreviate your Put the three-digit <b>Test Version</b> above into <b>NO. OF QUESTIONS</b> and <b>NO. OF STUDEN</b> . Fill in the bubbles with pencil only, no pen. Enter your NAME, Test Version, and a Manage your time. Answer questions you know, first. One Answer per question.	7. [49/83] What is true about this output from ls -il foo bar 24 -rwxr 3 root root 2 Jul 31 12:33 foo 24 -rwxr 3 root root 2 Jul 31 12:33 bar a. this output is not possible b. foo and bar are names for the same file
1.	[26/83] If a=123 and b=456 then what is the output of the following sequence bash commands: if \$a = \$b; then echo \$a; fi	e. <b>foo</b> and <b>bar</b> are names for different files
	<ul> <li>a. no output</li> <li>b. 123</li> <li>c. test: a=123: integer expression expected</li> <li>d. bash: 123: command not found</li> </ul>	8. [49/83] If the current directory contains files <b>abc</b> , <b>bbc</b> , <b>cbc</b> , and <b>bbc</b> contains just the line <b>dbd</b> , what is the output of the following command:  grep 'bb*\$' bbc  a. no output  b. cbc  c. dbd
	e. test: \$a: string expression expected	d. bbc e. an error message
2.	[37/83] What is the output on your screen of the following sequence of command i=00; [\$i-eq 0]; echo \$?  a. 1 b. no output c. 0	9. [52/83] A shell script named bar is executed as follows:  ./bar "a b" "c d e" f  Inside the script is the line: echo "\$3"  What is the output on your screen from this line?  a. c d e b. "f" c. f d. \$3 e. a b
	<ul><li>d. the number 0 or 1 followed by another 0 or 1 on a new line</li><li>e. test: \$i: integer expression expected</li></ul>	10. [52/83] What is the correct syntax to redirect both standard output and standard error into the same output file?
3.	[41/83] If ./a/b were a readable empty file, what would be the bash shell output of this two command sequence:  PATH=/etc/:/usr:/var ; /bin/cat ./a/b	a. command 2>&1 >out       b. command >out 2>&1         c. command 2>out >out       d. command >out 2>1         e. command 2>1 >out
	<ul> <li>a. no output</li> <li>b. /bin/cat: ./a/b: No such file or directory</li> <li>c. bash: ls: command not found</li> <li>d. bash: cat: command not found</li> <li>e. bash: /bin/cat: command not found</li> </ul>	11. [53/83] Who is the owner of file bar after you successfully execute this sequence of commands in your home directory:         touch foo; In foo one; In one two; In two bar         a. the file is owned by passwd         b. you cannot execute the given commands; no file will be created
4.	[45/83] If foo is a script containing the line TERM=new; export TERM, what is the output of the following sequence of bash commands that use foo: TERM=bar; ./foo; echo '\$TERM'	<ul> <li>c. the file is owned by home</li> <li>d. the file is owned by root</li> <li>e. you own the file bar</li> </ul>
5.	a. bar b. new c. TERM d. foo e. \$TERN [46/83] If the file foo in the current directory contains just two lines dbd, and 123, what is the output of the following command: grep '[:alnum:]' fo a. 123 b. foo c. both lines d. dbd e. no output or an error message	the bash output of this sequence of three commands:

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13. [54/82] What is the output of this sequence of three shell commands:
                                                                                20. [59/83] What is the output of the following sequence of bash commands:
       umask 732; touch newfile; ls -1 newfile
                                                                                        a=1 ; b=2 ; test $a -le $b ; echo $?
   a. ----r---wx 1 me me 0 Oct 1 1:12 newfile
                                                                                   a. test: $a: integer expression expected
   b. ----xr-x 1 me me 0 Oct 1 1:12 newfile
                                                                                   b. 1
   c. -rw-rw--w- 1 me me 0 Oct 1 1:12 newfile
                                                                                   c. no output
   d. ----r-- 1 me me 0 Oct 1 1:12 newfile
                                                                                    d. 0
   e. -rwxrw--w- 1 me me 0 Oct 1 1:12 newfile
                                                                                    e. the number 1 or 0 followed by another 1 or 0 on a new line
14. [55/83] If the current directory contains files abc, bbc, cbc, and bbc contains
                                                                                21. [60/83] If the current directory contains files abc, bbc, cbc, and bbc contains
   just the line dbd, what is the output of the following command:
                                                                                   just the line bbb, what is the output of the following command: grep bb* bbc
       grep "^bb*" bbc
                                                                                    a. an error message
                                                                                                            b. cbc
   a. dbd
                            h. bbc
                                                                                                            e. bbc
                                                    c. cbc
                                                                                    d. no output
   d. an error message
                            e. no output
                                                                                22. [61/83] In an empty directory, what appears on your screen after this bash
                                                                                    command line? ls 1>/dev/null nosuchfile
15. [56/83] What is the output on your screen of the following sequence of commands:
       x=pig ; y=cow ; [ -z $x ] ; echo $?
                                                                                    a. nosuchfile
   a. 1
                                                                                    b. ls: /dev/null: No such file or directory
   b. the number 0 or 1 followed by another 0 or 1 on a new line
                                                                                    c. ls: nosuchfile: No such file or directory
   c. no output
                                                                                    d. no output
   d. 0
                                                                                    e. ls: 1>/dev/null nosuchfile: No such file or directory
   e. test: $x: integer expression expected
                                                                                23. [63/83] What is the output on your screen of the following command sequence:
16. [57/83] If dog is an executable script containing the line: umask 0077
                                                                                        i=04; test $i = 4 ; echo $?
   what is the output of the following sequence of commands:
                                                                                    a. test: $i: integer expression expected
       umask 0022; ./dog; umask
                                                                                    b. the number 0 or 1 followed by another 0 or 1 on a new line
   a. 0022
                            b. 0079
                                                    c. no output on screen
                                                                                    c. no output
   d. 0077
                            e. 0075
                                                                                    d. 1
                                                                                    e. 0
17. [57/83] Which line below puts the count of the number of lines in the password file
   into the variable foo?
                                                                                24. [63/83] What is the output on your screen of the following sequence of commands:
   a. foo=$( cat -c /etc/passwd )
                                                                                        a=4 ; b=4 ; [ $a -le $b ] ; echo $?
   b. foo=$( wc -1 /etc/passwd | awk "print $1" )
                                                                                    a. the number 1 or 0 followed by another 1 or 0 on a new line
   c. foo=$( wc -1 </etc/passwd )</pre>
                                                                                    b. 1
   d. foo=$( awk -F: /etc/passwd | wc -l )
                                                                                    c. test: $a: integer expression expected
   e. foo=$( wc /etc/passwd | awk echo $1 )
                                                                                    d. no output
                                                                                    e. 0
18. [58/83] Which of these statements is true?
   a. The ls dir command looks up the directory argument dir in your $PATH.
                                                                                25. [63/83] Which bash command sequence correctly compares the two numbers and
   b. If ./q is an empty directory, echo ./q/.* produces an error message.
                                                                                    prints OK?
   c. If ./p is an empty directory, ls ./p/.* produces an error message.
                                                                                   a. if [ 4 -ge 3 ]; then echo OK; fi
   d. Double quotes will stop shell glob (wildcard) patterns from expanding.
                                                                                    b. if [ 4 > 3 ]; then echo OK; fi
   e. Typing ./script and bash script always give identical results.
                                                                                    c. if [ ! 4 -gt 3 ] ; then echo OK ; fi
                                                                                    d. if (! 4 < 3); then echo OK; fi
19. [59/83] If my current directory is /bin, which of these pathnames is equivalent to
                                                                                    e. if ( 3 < 4 ); then echo OK; fi
   the file name /bin/ls?
   a. ./bin/ls
                                        b. ../bin/ls/.
                                                                                26. [63/83] Which of the following regular expressions would match lines that contain
                                        d. /root/bin/ls
                                                                                    exactly one character of any kind?
   c. ls/.
   e. /bin/../bin/./ls
                                                                                    a. ^*$
                                                                                                  b. ^.*$
```

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c. ^\?\$

e. ^.\$

d. ^?\$

27. [65/83] Given the following bash shell command line:

## read xx yy zz

which user keyboard input line below will assign the text **22** to the shell variable named **zz**?

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a. 11 22 33c. 11:22:33

- b. 22 33 11 d. 11 33 22
- e. xx=11 zz=22 yy=33
- 28. [65/83] What is the output of this successful command line?

cd /home/myhome ; mkdir foo ; mkdir bar ; cd

a. no output

b. /home/myhome/foo

c. /home/myhome/bar

d. /home/myhome

- e. /bar
- 29. [66/83] What command shows all the lines in file **foo** that contain the string **bar**?
  - a. grep foo bar

b. grep -E '(bar)' foo

c. grep bar >foo

d. grep cat foo bar

d. --x

- e. cat foo > grep bar
- 30. [66/83] What minimal permissions must you have on a directory to be able to execute successfully the command ls . from *inside* the directory?
  - a. r-x
- b. rw-
- c. -wx

- e. r--
- 31. [67/82] Which of the following regular expressions would match lines that contain no white space?
  - a. [^:space:]\*

b. ^[[:space:]]\*\$

c. [^[:space:]]\*\$

d. [^[:space:]]\*

- e. ^[^[:space:]]\*\$
- 32. [68/83] Which of the following regular expressions would match lines that contain one or more alphanumeric characters only?
  - a. [a-z0-9][a-z0-9]\*
  - b. ^[[:alnum:]]\*\$
  - c. ^[[:alnum:]][[:alnum:]]\*\$
  - d. [[:alnum:]]\*
  - e. [[:alnum:]]\*
- 33. [68/83] Which of the following programs uses file globbing expressions rather than regular expressions for matching:
  - a. find
- b. grep
- c. awk
- d. vi
- e. sed
- 34. [69/83] If /etc/passwd is a file name, which of the following pathnames always leads to the same file?
  - a. /etc/../../passwd
- b. /etc/passwd/.

c. ./etc/passwd

- d. /etc/../etc/passwd
- e. /etc/passwd/../..

35. [70/83] If the file **foo** in the current directory contains just the line **dbd**, what is the output of the following command: **grep** '^[[:alpha:]]' **foo** 

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a. dbd

- *b.* no output
- c. **123**

- d. an error message
- $\it e$ . foo
- 36. [71/83] Which of these statements is true?
  - a. You only need "r--" permission on directory "foo" for "ls -l foo" to work.
  - b. If you give me write permission on a file owned by you, I can then use **chmod** to change its permissions.
  - c. The "ln" command takes two arguments, so the maximum number of hard links a file can have is two.
  - d. To make a hard link to file "foo" named "bar", file "foo" must exist.
  - e. You can make a hard link to a directory.
- 37. [73/83] Which of the following is true, given this long directory listing from ls:

755 drwxr-x--x 256 tgk user 1024 May 30 12:35 dir

- a. The number 755 is the count of links (names) this directory has.
- b. The number 1024 is the size of this directory.
- c. The number 256 is the inode number of this directory.
- d. The number 1024 is the count of links (names) this directory has.
- e. The number 256 is the octal permissions of this directory.
- 38. [73/83] Which of these command lines will make file **cow** contain all of the content of file **one** followed by all of the content of file **two**?
  - a. cp one two >cow

b. mv one two >cow

c. cat one two >cow

- d. echo one two >cow
- e. cp one >cow two >cow
- 39. [73/83] If the file **foo** in the current directory contains just the line **dbd**, what is the output of the following command: **grep** '[[:alpha:]]' **foo** 
  - a. dbd

b. foo

c. 123

- d. no output
- e. an error message
- 40. [74/83] In the output of the command **1s** -a, a dot that begins a name signifies what?
  - a. A name that is hidden.
  - b. The parent directory.
  - c. The current directory.
  - d. A name with an unprintable character.
  - e. A current file.
- 41. [74/83] Which of these commands makes a file owned by me, also writable by me?
  - a. umask 777 myfile

- b. umask 111 myfile
- c. chmod x=u ./myfile
- d. chmod u+w myfile
- e. chmod u+x ./myfile

42. [75/83] Which command sequence creates a directory into which anyone can put a file, but in which nobody can see the names of the files that are there?

a. mkdir protected; cd protected; chmod go-x.

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b. mkdir protected; chmod 333 protected

 $\emph{c}.$  mkdir protected ; cd protected ; chmod go+wx .

d. mkdir protected ; chmod 777 .

e. mkdir protected; chmod 777 protected

43. [76/83] Which command below removes *only* this five-character file name containing a special character (and no others): \*test

44. [77/83] In an empty directory, how many files are created by this command:

touch "b c" ' ' d e

a. 3 b. 6 c. 7 d. 5 e. 4

45. [78/83] What is in file **cow** after running this **bash** shell command line? **echo two >cow three** 

e. two three

46. [80/83] If **cow** is a sub-directory that contains only the file **dog**, what happens after this command: **mv cow**/././**dog cow**/cat

a. the directory cow now contains only a file named cat

b. the command fails because the name cat does not exist

c. the command fails because the name cow/././dog does not exist

d. there is a second copy of the file dog in the file named cat

e. the directory **cow** is now empty

47. [80/83] What is the result of this exact command line:

## echo /etc/passwd ls

a. the text "/etc/passwd" and "ls" will be displayed

b. file "/etc/passwd" will be copied to "hello"; the names will be displayed as well

c. all the files under "/etc/passwd" with the name "hello" will be displayed

d. the contents of the files "/etc/passwd" and "hello" will be displayed

e. a list of file names matching "/etc/passwd" and "hello" will be displayed

48. [80/83] Which command line would show the inode number of a file?

a. ps -la file b. ls -la file c. cat -ia file

d. cat -la file e. ls -ia file

49. [81/83] What would you type to change the permissions on a file to rwxr-xr-x?

a. chmod 244 file b. chmod 755 file c. chmod 211 file d. chmod 311 file

e. chmod 344 file

50. [82/83] What command can you use to delete a directory?

a. eraseb. rmdirc. deld. deletee. deldir

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